ManoScan® high resolution manometry

In Vivo Calibration for ManoScan® Catheter Products

In vivo calibration establishes channel compensation for transition from ambient temperature to body temperature and the aqueous in vivo environment.

In vivo calibration should be performed at least once a week to promote a weekly routine.

1. Turn on all equipment. Modules should be turned on before the computer.
2. Connect the red and blue catheter connectors to the A100/A120 module or the large white connector if using the A200 module, or the larger connectors to the A300 3D module if using 3D catheter.

   Note: ManoShield™ AR 3D must be used when performing in vivo calibration on AR 3D probe.
3. Double-click on the appropriate ManoScan Acquisition desktop icon.
4. Select the catheter serial number connected to the system, if prompted.
5. Click Calibration on the toolbar.
6. Pressure-calibrate the catheter by pressing the Start button.
   - The Close button (bottom left of Calibration window) will change from Cancel to OK after pressure calibration is complete.
7. Click the OK button.
8. Click Calibration on the toolbar again.
9. Click the Utilities button (bottom right of Calibration window).
10. Select Calibration In vivo from the Utilities window.
    - If the Calibration In vivo button is grayed out and not selectable, it means the catheter has not been successfully pressure calibrated.
      Repeat the above steps again.
    - It must display Calibrated in green at the top left of the screen.
11. Follow the Guided Protocol Instructions and pop-up commands.
    - This feature leads you through the in vivo calibration step-by-step.

    Note: DO NOT JUMP AHEAD OF THE GUIDED PROTOCOL INSTRUCTIONS.
12. Select Finish when prompted.
13. Select OK to close the Utilities window.
14. Close the ManoScan Acquisition software.
15. Allow the catheter to cool down to room temperature (approximately 10 minutes) prior to applying a ManoShield sanitary sheath and prior to performing a study.
16. To proceed with performing a study, open the ManoScan Acquisition software, select the connected catheter and select Start at the top right side of the toolbar.

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The risks of catheter insertion into the nasal passage associated with ManoScan® ESO high resolution manometry include discomfort, nasal pain, minor bleeding, runny nose, throat discomfort, irregular heartbeat with dizziness and perforation. In rare instances, the catheter may be misdirected into the trachea causing coughing or choking, or the catheter may shift up or down causing false results.

The risks of ManoScan® AR high resolution manometry include perforation or bleeding of the intestinal wall. Patients with previous rectal surgery, bowel inflammation or bowel obstruction may have a higher risk for iatrogenic bowel perforation. Medical, endoscopic or surgical intervention may be necessary to address any of these complications, should they occur. These systems are not compatible for use in an MRI magnetic field. Please refer to the respective product user manual or givenimaging.com for detailed information.

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